

Abstract of the Disclosure

**APPARATUS AND METHOD FOR INCORPORATING AN ANNULAR
ANTENNA AND ELECTRONICS INTO A TIRE**

Apparatus and a method for pre-cure application of an annular antenna assembly to a tire comprises the method steps: forming within a rigid core defining an interior surface of the tire a core recess complementarily configured to the annular antenna assembly; positioning the annular antenna assembly within the core recess; building an uncured carcass of the tire around the rigid core entrapping the annular antenna assembly within the core recess; cross-bonding the annular antenna assembly to the inner surface of the tire during a cure cycle; and removing the cured tire and annular assembly from the rigid core.